

# SEQUENCE LISTING

<110> HSC Research Development Limited Partnership et al

<120> RAS Activator Nucleic Acid Molecules, Polypeptides and  
Methods of Use

<130> 1786/0019

<140> PCT/CA00/00042

<141> 2000-01-20

<150> 2,259,830

<151> 1999-01-20

<160> 27

<170> PatentIn Ver. 2.1

<210> 1

<211> 6568

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (63)..(4562)

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1786/0019

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&lt;210&gt; 5

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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Cys Leu Leu Pro Cys Leu Lys Ala Ala Trp Gly Phe Phe Ser Pro Ser  
 195 200 205

Ser Phe Pro Leu Cys Met Xaa Asn Thr Val Lys Lys Leu Pro Trp His  
 210 215 220

Phe Ala Asp Leu Leu Leu Glu Met His Ser Pro Ala Ala Pro Glu Leu  
 225 230 235 240

Leu Pro Ala Thr Ser  
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<210> 6  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

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Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Lys Arg Trp Glu Gly Cys  
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Leu Arg Xaa Gly Arg Glu Gln Gln His Gly Ala Arg Asp Tyr Arg Gly  
 35 40 45

Ser Gln Thr Cys Pro Tyr Ala Cys Pro His Ser Cys Asp Ala Glu His  
 50 55 60

Tyr Gln Gly Thr His Arg Thr Glu Gly Arg Gln Val Pro Gly Ala Ala  
 65 70 75 80

Ser His Thr Ser Arg Leu Arg Gly His Pro His Cys Arg Phe Pro Arg  
 85 90 95

Arg Ala Leu Pro Pro Gly Gln Glu Ala Pro Gly Leu Gln Arg Gly Pro  
 100 105 110

Ala Ala Val Pro His Gly Gly Thr Ala His Xaa Gly Pro Gly Thr Gly  
 115 120 125

Pro Asp Ala Ala Cys Ser Arg Ser Gln Pro Ala Gly Gln Gln Ala Thr  
 130 135 140

Val Ala Gln Ala Gln Arg Arg Arg Pro Thr Pro Arg Ala Leu Pro Gly  
 145 150 155 160

Ala Gly Phe Ala Gly Ala Glu Glu Asp Glu Asp Glu Gln Val Ser Ala  
 165 170 175

Val Xaa Gly Ala Gly Ser Leu Ile His Ser Glu Pro Pro Lys Gly Glu  
 180 185 190

His Lys Lys Thr Ser Gln Ala Leu Glu Pro Trp His Ala His Leu Arg  
 195 200 205

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[illegible][illegible]

$\frac{d}{dt} \left( \frac{\partial L}{\partial v^i} \right) = \frac{\partial L}{\partial x^i}$

[illegible]

$\frac{d}{dt} \left( \frac{\partial L}{\partial v^i} \right) = \frac{\partial L}{\partial x^i}$

[illegible][illegible]

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Ala Leu Lys  
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 Gly Lys Glu Gln Asn Ser Pro Ile Tyr Ile Ser Arg Ile Ile Pro Gly  
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 Gly Ile Ala Asp Arg His Gly Gly Leu Lys Arg Gly Asp Gln Leu Leu  
 35 40 45  
 Ser Val Asn Gly Val Ser Val Glu Gly Glu His His Glu Lys Ala Val  
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 Glu Leu Leu Lys  
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 Gly Glu Lys Gly Gly Ile Tyr Val Ser Lys Val Thr Val Gly Ser Ile  
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 Ala His Gln Ala Gly Leu Glu Tyr Gly Asp Gln Leu Leu Glu Phe Asn  
 35 40 45  
 Gly Ile Asn Leu Arg Ser Ala Thr Glu Gln Gln Ala Arg Leu Ile Ile  
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 Gly  
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 35 40 45  
 Phe Gly Ile Leu Pro Thr Met Asp Lys Leu Tyr His Arg Gly Val Met  
 50 55 60  
 Arg Thr Lys Cys Asp Asp Cys Gln Phe Val Cys Ile Thr Gln Thr Asp  
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Tyr Tyr Arg Ile Gln His Gln Gly Glu Glu Asn Thr Arg Arg His Glu  
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Asp Glu

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Gly Asp Lys Gly Thr Ser Trp Tyr Ile Ile Trp Lys Gly Ser Val Asn  
20 25 30

Val Val Thr His Gly Lys Gly Leu Val Thr Thr Leu His Glu Gly Asp  
35 40 45

Asp Phe Gly Gln Leu Ala Leu Val Asn Asp Ala Pro Arg Ala Ala Thr  
50 55 60

Ile Ile Leu Arg Glu Asp Asn Cys His Phe Leu Arg Val Asp Lys Gln  
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Asp Phe Asn Arg Ile Ile Lys Asp Val Glu Ala Lys Thr Met Arg Leu  
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Glu Glu His

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Gly Asn Glu Gly Asp Asn Phe Tyr Val Val Asp Gln Gly Glu Val Asp  
20 25 30

Val Tyr Val Asn Gly Glu Trp Val Thr Asn Ile Ser Glu Gly Gly Ser  
35 40 45

Phe Gly Glu Leu Ala Leu Ile Tyr Gly Thr Pro Arg Ala Ala Thr Val  
50 55 60

Lys Ala Lys Thr Asp Leu Lys Leu Trp Gly Ile Asp Arg Asp Ser Tyr  
65 70 75 80



95

Arg His Gly Glu Gly Pro Leu Leu Leu His Leu Ala Ser Pro Val Ala  
65 70 75 80

